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[54] PREPARATION OF A HYPOALLERGENIC WHEY PROTEIN HYDROLYZATE AND **FOOD**

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[58] Field of Search 426/7, 34, 41, 42, 61, 426/63, 657, 801

References Cited [56]

U.S. PATENT DOCUMENTS

	Feldman et al 426/7
4,293,571 10/1981	Olofsson et al 426/7
	Maubois 426/7

FOREIGN PATENT DOCUMENTS

0055172 6/1982 European Pat. Off. . 0087247 8/1983 European Pat. Off. .

OTHER PUBLICATIONS

Blatt et al., "A Modified Untrafiltration Cell for Separating the Products of Proteolysis," Analytical Biochemistry 22, 161–165 (1968).

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ABSTRACT [57]

To prepare a hypoallergenic whey protein hydrolyzate product, particularly for employment in infant formula, whey material first is hydrolyzed with a proteolytic enzyme and then the enzymatic hydrolyzate is subjected to a heat treatment to denature proteins which remain intact after the first hydrolysis and which constitute allergens, and then the heated hydrolyzate is cooled. The cooled heat-treated hydrolyzate then is hydrolyzed by a proteolytic enzyme to provide a hydrolyzate substantially free of allergens of protean ori-

25 Claims, No Drawings